



AVIATION LABORATORIES



Aviation Products & Services

Laboratory Testing Products & Services

Field Testing Products

**Filtration Products, Inspection Kits,
& Hardware**

Cleaners, Polishes, & Restoration Products

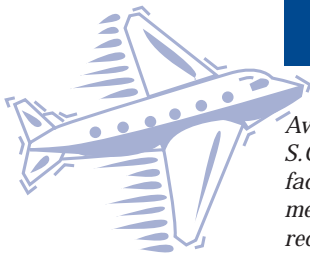
Degreasers, Cleaners, & Lubricants

Fuel Additives & Engine Oil Products

Wing Deicers & TKS Fluid



AVIATION LABORATORIES



Aviation Laboratories was founded in 1985 and initially specialized in the development of the Garrett S.O.A.P program. Since that time we have developed into the leading aviation related analytical testing facility in the world, providing state of the art analytical testing of engine oil, oil filter debris, metallurgical alloys, hydraulic fluid, fuel, and comprehensive contamination testing. We are recommended or approved by most engine and airframe OEM's.

Our mission has been to develop analytical techniques and results interpretation to meet the needs of aircraft owners/operators, and airframe and engine OEM's.

Aviation Laboratories has developed a complete line of field test kits for aviation including Bug Test, FSII test kits, and Oil Filter Rinsing and Analysis Kits. We also distribute field test kits from other manufacturers.

We have developed our own line of TKS fluid, Dice Fuel System Icing Inhibitor, cleaners, degreasers, polishes, and lubricants. We stock and distribute a full line of chemical products such as Type I and Type IV wing de-icers, fuel biocides, oil additives, engine oils, and hydraulic fluids. We stock and distribute a full line of filtration products, inspection kits, o-rings, gaskets, drain valves, and hardware.

More importantly, you will find that our fine line of products and services is complemented with unsurpassed customer service and support, with competitive pricing and quick delivery times.

Our innovation and quality has been tested for 20 years!

Call or go on-line for Pricing, Volume Discounts, or Distributor Information:

Corporate Office

5401 Mitchelldale, Suite B6
Houston, TX 77092
1-800-256-6876 Tel. 713-864-6677 Fax. 713-864-6990
www.avlab.com E-mail: sales@avlab.com

New Orleans Laboratory

910 Maria Street
Kenner, Louisiana 70062
Tel. 504-469-6751 Fax. 504-469-6886
E-mail: lab@avlab.com

Laboratory Testing Products & Services

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Fuel Test Kits

Chip Kit
Fuel Mixture or Hydraulic Fluid Mixture
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Bug Test Kits

Filtration Products, Inspection Kits, & Hardware

Filtration Products
Inspection Kits (Engine, Airframe, APU)

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Cleaners, Polishes, & Restoration Products

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CLEARVIEW Plastic & Glass Cleaner
MICRO-MESH KR-70 Acrylic & Plastic Restoration Kit

RAINWIPES™ Microfiber Towels
REJEX™

Degreasers, Cleaners, & Lubricants

AVL Electro Contact Cleaner
AVL Fast-Acting Cleaner & Degreaser
AVL No Chlor Cleaner & Degreaser

AVL Corrosion Inhibitors & Lubricants
Corrosion X

Fuel Additives & Engine Oil Products

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AVBLEND
Fuel Mats

Wing Deicers & TKS Fluid

AVL TKS Fluid - InFlight de-icer

SAFETEMP Wing Deicer



Metal Check Oil Analysis

Determine the condition of oil wetted engine parts even on the first sample. Analysis of 12 wear metal elements for piston and turbine engines. Analysis completed in 24 hours and abnormal results are communicated immediately. **Oil analysis results are available on-line at www.avlab.com.** The largest results database for every engine model has allowed for the development of accurate interpretive guidelines. Aviation Laboratories has the most experienced analytical staff. Recommended or authorized by most engine manufacturers. Product useful for aircraft pre-purchase inspection. Postage to the laboratory is prepaid. Part Number: GA-001-NO

CHAMPION Aerospace Oil & Oil Filter Analysis

Oil analysis is combined with the analysis of the oil filter. The oil filter is rinsed and the debris removed is analyzed. The exact alloys present are determined by Scanning Electron Microscopy and EDXRF. The alloys are reported by AMS number. Amount, type, form, and condition of particles are reported. Aviation Laboratories' database includes alloy spectra and metal maps for most aircraft engines. Filter analysis is a critical part of all preventative maintenance programs. Aviation Laboratories has been a leader in the development of filter analysis programs for aircraft engines since 1985. Analysis completed in 24 hours. Product useful for aircraft pre-purchase inspection. Supplied through CHAMPION Aerospace distributors. Part Number: CH48200



Hydraulic Fluid Test Kits

Hydraulic fluid test kits are available for 5606 and Skydrol/Hyjet synthetic fluids. Tests for 5606 include particle count, viscosity, wear metals, total acid number, and water. Skydrol kits include added tests for chlorine, sulfur, calcium, potassium, and sodium. 5605X test kits have added tests for chlorinated solvents. Tests performed in accordance with ASTM and airframe maintenance manuals. Interpretive guidelines are available for all airframes. Product useful for aircraft pre-purchase inspection. Part Number: AL-HFT 5606 / AL-HFT 5606-X / AL-HFT-G (SKYDROL)



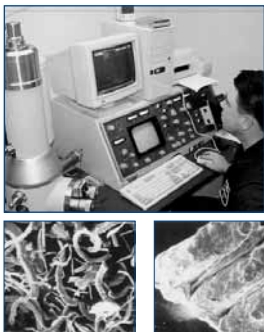
Fuel Test Kits

The Fuel Test Kit is used to determine fuel quality. Fuel container and shipping box are included with the kit and meets all DOT and state shipping requirements. Tests include: API gravity, cetane index, D-86 distillation, Karl Fisher water, Bug Test, pour point, and flash point. Custom test kits are available. Part Number: AL-FTK



Chip Kit

The Chip Kit includes a Chip Kit card, which has special tape for securing particles from chip detectors or screens. Chips or metal particles are sent to the laboratory and undergo extensive testing to determine the exact alloy type. The form and condition of the particles are also reported. The analysis is performed using Scanning Electron Microscopy Energy Dispersive X-Ray Fluorescence (SEM EDXRF). Part Number: AVL-CK



Fuel Mixture or Hydraulic Fluid Mixture Contamination Test Kit

This test kit is used when it is suspected that Jet A has been mixed with AVGAS, or if it is suspected that SKYDROL/Hyjet has been mixed with 5606 fluids. The analysis is performed using specific gas chromatography protocol developed by Aviation Laboratories. Percent of each type of fuel or hydraulic fluid is reported. Part Number: AVL-CONT





Field Testing Products



Oil Filter Rinsing Apparatus

This apparatus allows you to thoroughly rinse your filters and concentrate all of the debris removed onto a filter pad for examination and subsequent analysis. Apparatus meets most maintenance manual requirements. It is designed to be used in conjunction with Aviation Laboratories Oil Filter Rinsing Kits, which include a filter funnel, filter paper, customer information form, shipping box, and complete laboratory analysis of the filter debris by SEM/EDXRF. Oil Filter Rinsing Apparatus, AVL-OFRA / Oil Filter Rinsing Test Kit, GA-001-OFRK

Velcon Hydrokit Water Test Kits

These test kits are for use in the field to determine the amount of free water in excess of 15 ppm in aviation fuels. A sample of fuel is inserted into a test tube containing a powder, which is color indicating in the presence of water. Color chart is provided to determine water concentration. Test kits are available for the testing of 100 or 25 samples. Part Number: AL-EXX-KIT: 100 tests / AL-EXX-25: 25 tests

Bug Test Kits

The Bug Test Kit allows for accurate semi-quantitative field analysis of bacteria and fungus in fuel. It replaces standard plate count techniques used in the laboratory. A measured fuel sample is inserted into a sterilized serum bottle. After a set time period a color change is compared with the Bug Test Color Chart. Part Number: AL-BC

Airwolf Filter Cutter

This is the most durable filter cutter available anywhere. It has been used extensively by our laboratory staff and has proven to be easy to use and is virtually indestructible. Cutting blade lasts a long time and is easy to replace. Part Number: AFC-470

Fuel System Icing Inhibitor (FSII) Test Kit

This test kit allows user to test aviation fuels for the proper amounts of FSII, fuel system icing inhibitor, using the Standard Test Method for Measurement of Fuel System Icing Inhibitors in Aviation Fuels (ASTM D5006-96). The kit allows for thousands of tests and is completely reusable. This test kit is approved by the U.S. Air Force (NSN 6630-01-165-7133) and others. The test can also be performed in our laboratory. Part Number: Field Test Kit, AL-FSII / Lab Test Kit, AL-FTK-FSII



Filtration Products, Inspection Kits & Hardware

Filtration Products

Aviation Laboratories stocks an extensive line of PMA and OEM filters for engines and airframes. We stock filters from Champion, Purolator, Western Filter, Pall, Puroflow and others.

Filters for Oil, Fuel, Hydraulic, and Air are available for all Engine and Airframe Applications. Both PMA and OEM Parts are available. FAA 8130 certification is provided with all PMA parts.

Suppliers for: Aircraft Porous Media, Donaldson, Grimes, Puroflow, Purolator/Facet, Western Filter and many more.

Please send a request for a quote or call for all your filtration requirements.

Inspection Kits Engine, Airframe, APU

Aviation Laboratories stocks hundreds of different inspection kits. Honeywell 731 and 331 100-hour inspection kits, Pratt & Whitney PT6, PW100, and JT-15 inspection kits, and many others. Please send us a request for a quote or call us for all your inspection kit requirements. Our standard kits can be customized to meet your needs.

SAF-AIR Drain Valves

With the SAF-AIR oil drain valve, no wrench is needed to remove the drain plug, making it a simple procedure to sample or drain hot oil. Merely screw on the opener adapter and slightly open the valve for a sample, or fully open for complete drainage. A simple push and turn of the SAF-AIR valve locks it in the open position. The valve is very affordable and can be rebuilt. FAA Approved.



Challenger Air Filters

From the drag strip to the air strip, Challenger's new FAA/PMA air filters are the undisputed leader worldwide. These air filters include K&N re-cleanable air filter media. The filter offers up to 50% more air flow with the same dirt holding capability; meaning increased horsepower and reported fuel savings of 0.3 to 0.5 gallons per hour. Replacement filters are available for most airframes and engine types.



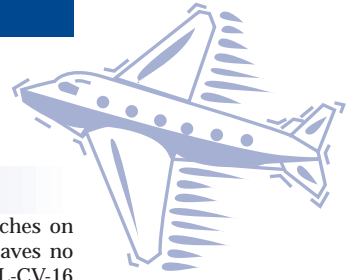
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call for discount pricing **1-800-256-6876**
www.avlab.com for online ordering





Cleaners, Polishes, & Restoration Products



CLEARVIEW Plastic Polish

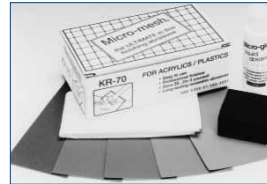
CLEARVIEW Plastic Polish makes clear plastics look "like new". It is designed to fill in fine scratches on plastic windshields and windows, leaving a perfect like new finish. CLEARVIEW Plastic Polish leaves no residue; just spray it on and wipe it off. It is safe on all plastics and is non abrasive. 13 oz. Part#: AVL-CV-16

CLEARVIEW Plastic & Glass Cleaner

CLEARVIEW Plastic & Glass Cleaner is safe on all plastics and glass, it contains no ammonia. This foaming glass cleaner cleans and leaves a shiny finish with no residue. 15 oz. Part #: AVL-AGC

MICRO-MESH KR-70 Acrylic & Plastic Restoration Kit

MICRO-MESH has been a leader in acrylic and plastic restoration for over 30 years. This kit is designed for hand use and contains the materials required to make your windshield look like new. Easily removes scratches and crazing using specially designed cushioned abrasives. Includes a detailed instruction manual. Approved by Boeing/McDonnell Douglas, the Military, and the FAA. Part #: KR-70



RAINWIPES™ Microfiber Towels

These microfiber towels are unsurpassed for cleaning and polishing. RAINWIPES are incredibly soft and trap dirt in their fine fibers to prevent scratching. Machine washable over 500 times, extremely durable and reusable. Can be used wet or dry with any waxing or cleaning product. Lint free and extremely absorbent. 75% polyester, 25% polyamide. RAINWIPES™ Part Number: 16"x16"/AVL-RW-20430; 16"x24"/AVL-RW-20410



REJEX™ Space Age protection for your Airplane, Car, Boat & Motorcycle

REJEX™ is a thin-film polymer coating designed to provide a high-release surface. This very thin film, less than a micron thick, reduces adhesion of common contaminants such as exhaust, bugs, oil, tree sap, bird droppings, road grime, brake dust, etc. that can leave stains. Can be applied to windshields to repel rain. It is easy to apply and produces a deep, lustrous shine that lasts for months. Used by the US Air Force. Part Number: REJEX-16



Degreasers, Cleaners, & Lubricants

AVL Electro Contact Cleaner

AVL Electro Contact Cleaner is a premium aviation cleaner that penetrates fast, and cleans and de-greases without leaving any residue. AVL-ECC is nonflammable and dries fast. 16 oz. Part Number: AVL-ECC

AVL Fast Acting Cleaner & Degreaser

AVL FACD II is a chlorinated degreaser, trichloroethylene. It is nonflammable, cleans and de-greases very fast, and dries quickly leaving little residue. 18 oz. Part Number: AVL FACD II

AVL No Chlor Cleaner & Degreaser

AVL No Chlor contains no chlorinated solvents or CFCs. Evaporates quickly leaving no residue. Removes oil and grease on contact. This is the best non-chlorinated degreaser we have ever produced. 14 oz. Part Number: AVL NC20



AVL Corrosion Inhibitors & Lubricants

AVL LIGHT, MEDIUM, AND THICK are excellent water displacing corrosion inhibiting lubricants. The various weights are for different applications: LIGHT(LW) leaves a fine coating for delicate equipment, MEDIUM(MW), leaves a medium coat of protection; and HEAVY(HW) is a heavy coating for longer lasting protection of exposed equipment. These products are available in bulk quantities. Please call for bulk pricing. Aerosol cans are 11 oz. Part Number: AVL-LW16, AVL-MW16, AVL-HW16



CORROSIONX™ Corrosion Control

CorrosionX™ Aviation takes corrosion control to a new level. Featuring the latest advances in Fluid Thin Film Coating (FTFC) Technology, it is especially designed to displace moisture, stop corrosion instantly and provide long-lasting protection. CorrosionX Aviation is qualified under Mil-C-81309E, Type II for application to airframes and is used extensively by the military. Part Number: CORROSIONX-16 / 16 oz. aerosol CORROSIONX-1G / 1 gallon bottle



AVIATION LABORATORIES

call for discount pricing **1-800-256-6876**
www.avlab.com for online ordering





DICE FLASH 190 FSII FUEL SYSTEM ICING INHIBITOR

DICE FLASH 190 is now the preferred fuel system icing inhibitor. More aviation customers use DICE FLASH 190 than any other FSII. Our product, offered since 1987, is manufactured by DOW Chemical Company and meets MIL-DTL-85470B. DICE is available worldwide through more than 40 stocking locations for fast delivery. DICE is available in 55 gallon drums, 5 gallon pails, totes, and 20 oz. aerosol cans. DICE FLASH 190 undergoes strict quality control and product stewardship. Unlike other similar products DICE FLASH 190 is manufactured in the U.S.A. Part Number: D-F190-55; 55 gallon drum / Part Number: D-F190-5P; 5 gallon pail / Part Number: D-F190-20; 20 oz. aerosol can, case of 24

Biocides for Fuel Treatment, Biobor® JF

Biobor® JF is a liquid fuel additive that combats fungus and other microbe life in hydrocarbon fuels. Biobor® JF eliminates growth of harmful slime producing fungi that clog filters and fuel lines, attack rubber fuel system components, and whose waste products aid in the corrosion of metal surfaces. Biobor® JF does not adversely affect fuel performance in engines. Biobor® JF is an effective microbiocide because of its equilibrium solubility in both fuel and water under conditions of fuel storage. Aviation Laboratories stocks Biobor® JF in pints, quarts, 5 gallons and drums.



Aircraft Engine Oil

Aviation Laboratories stocks every common brand of Piston and Turbine aircraft engine oil. **Call for current inventory and special discount pricing.**



AVBLEND

AVBLEND has proven to reduce corrosion, operating temperatures, fuel consumption, and oil consumption. Available in 4 packs, 6 packs, and a case of 24 one pint cans. Call for additional volume discounts. **Order a 4 pack or more and receive a free Metal Check Oil Analysis Kit.** Part Number: AVBLEND-6 / AVBLEND-GA / AVBLEND-24



Fuel Mats

These fuel mats are made for Aviation Laboratories from heavy duty durable synthetic rubber. They are non-static and fuel resistant. They are color coded for JET A (Black), and AVGAS (Blue). They are available with center holes or top offset holes. (24" X 16") Part Number: Avmat-Avgas1 (top hole) / Avmat-Avgas2 (center hole) / Avmat-Jet1 (top hole) / Avmat-Jet2 (center hole)



Wing Deicers & TKS Fluid

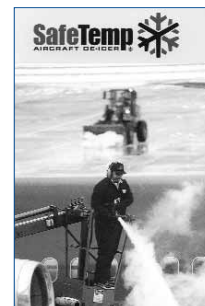
Also ask about our supply of 5606 Hydraulic Fluid, Skydrol (Phosphate Ester Hydraulic Fluids), & HyJet Hydraulic Fluids.

AVL TKS FLUID - InFlight De-icer

AVL TKS Fluid is approved by British Aerospace and meets DTD-406B and AMS 1424B. This product is tested before and after blending, and undergoes strict quality control. Approved for all TKS systems. Filtered to 1 micron. Product supplied with certificate of analysis and strict lot control. Part Number: AVL-TKS-55; 55 gallon drum / Part Number: AVL-TKS2.5; Case of two 2.5 gallon containers.

SAFETEMP Wing Deicer

SAFETEMP is the premium PG based deicing fluid, and meets all current SAE/AMS 1424B, and United Airlines CHE-3024 specifications. It is used by several airlines. TYPE 1 and TYPE IV fluids are available in drums, totes or bulk. Part Number: Safetemp1-PG100 / AVL-Safetemp-IV



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www.avlab.com for online ordering





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5401 Mitchelldale, Suite B6
Houston, Texas 77092



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